

## POWER PENTODE

MINIATURE TYPE

## GENERAL DATA Electrical: Filament. Coated: Filament arrangement Series\* Parallel\*\* Voltage . . . . . . . . . 2.8 1.4 volts 0.1 Current . . . . . . . . . 0.05 amp Direct Interelectrode Capacitances:0 μμξ 0.3 Grid No.1 to plate . . . . . . . . . Grid No.1 to filament (mid-tap) & 4.8 grid No.3, and grid No.2. . . . μμf Plate to filament (mid-tap) & grid No.3, and grid No.2. . . . Mechanical: Mounting Position . . . . . . . . . . . . . . . . Maximum Overall Length . . . . . . . . . . . . . . . . . . 2-1/8" 1-7/8" Maximum Diameter......... Basing Designation for BOTTOM VIEW . . . . . . . . . . . 7BA Pin 5 - Filament Pin 1-Filament Mid-Tap (-series) Pin 2 - Plate (-parallel), Pin 3-Grid No.1 Grid No.3 Pin 6 - Plate Pin 4 - Grid No. 2 Pin 7 - Filament (+) AMPLIFIER - Class A Maximum Ratings, Design-Center Values: Series\* Parallel\*\* 90 max. 90 max. volts PLATE VOLTAGE . . . . . GRID-No.2 (SCREEN) VOLTAGE . . . 67.5 max. 67.5 max. volts TOTAL MAXIMUM-SIGNAL 12 max. CATHODE CURRENT . . . . . TOTAL ZERO-SIGNAL 4.5 \*max. 9 max. ma Typical Operation and Characteristics: Series\* | Parallel \*\* 90 67.5 Plate Voltage . . . . . . . . 67.5 90 volts Grid-No.2 Voltage . . . . . . 67.5 67.5 67.5 67.5 volts Without external shield. For each 1.4-volt filament section. For series operation of the sections, a shunting resistor must be connected across the section between pins No.1 and No.5 to bypass any cathode current in excess of the rated maximum per section. When other tubes in series filament arrangement contribute to the filament current of the 3S4, an additional shunting resistor may be required between pins No.1 and No.7. ← Indicates a change. \*\*: See next page.





## **POWER PENTODE**

	Series*   Parallel**	
-	Grid-No.1 (Control-Grid) Voltage	ts
	Voltage	ma ma hm
-	Maximum Circuit Values (For maximum rated conditions):	
	Grid-No.1-Circuit Resistance: For fixed-bias operation 2.2 max. megol For cathode-bias operation 2.2 max. megol	
<b>-</b>	Typical Operation with Single Filament Section:	
	Plate Voltage	ts ts ts ts ma ma
-	Maximum Circuit Values (For maximum rated conditions):	Ì
	Grid-No.1-Circuit Resistance: For fixed-bias operation 2.2 max. megoh For cathode-bias operation 2.2 max. megoh Filament voltage applied across the two sections in series between p No.1 and No.7. Grid-No.1 voltage is referred to pin No.1.	ins
	Filament voltage applied across the two sections in parallel betw pin No.5 and pins No.1 and No.7 connected together. Grid—No.1 volt is referred to pin No.5.	een age
	Either filament section may be operated singly with the other sect floating. It is to be noted, however, that such operation may imp the emission capabilities of the unused section. Although in subsequoperation the unused section may be operated in series with the usection, it should not be operated singly.	air ent
	Curves shown under Type 184 also apply to the 384 with the filaments connected in parallel	e
	→ Indicates a chan	ge.